



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Batakrisna MANDAL § Confirmation No.: 3294  
§  
§ Group Art Unit: 3662  
§  
§ Examiner: UNKNOWN  
§  
§ Atty. Docket No.: 1391-24800  
§  
For: Acoustic Logging Tool Having § Client Ref. No.: 2000-IP-002325  
Quadrupole Source (as amended) §

3662  
#4  
2123/A  
State

PRELIMINARY AMENDMENT

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

**RECEIVED**

Date: February 4, 2004

FEB 11 2004

Sir:

**GROUP 3600**

This amendment is filed with a substitute specification and a marked-up copy of the substitute specification showing the following amendments relative to the original specification.

*Ang Telle*  
In the title, and throughout the specification, claims, and abstract, please amend the word "quadrapole" to read "quadrupole".

Please contact the undersigned with any questions or concerns regarding this amendment.

Respectfully submitted,

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FEB 24 2004

**TC 2100**

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